DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site

DATE: April 23, 2018	**WEATHER:** Sunny, high of ~70 degrees F, light to moderate wind with strong gusts

Personnel and Visitors Onsite:
Research vessel Cayuse - (no oversight representative) AECOM: Michaela McCoog; Geosyntec: Erin Dunbar; Gravity Marine: John Schaefer, Jeff Schut

Research vessel Tieton - CDM Smith: Julee Trump; AECOM: Bruce Cassen; Geosyntec: Alison Clements; Gravity Marine: Mike Duffield, Maggie Mckeon

Planned Activity:

- Collect surface sediment samples at stratified random sample locations in Swan Island Lagoon, and continuing upriver from river mile (RM) 8.6 West avoiding areas of suspected dense sediments that would prevent recoveries > 20 cm.
- H&S training meeting and start deployment of fish sampling/monitoring equipment. (oversight not provided, crew and vessel not listed above)

Activity Completed:
A tailgate safety meeting was led by AECOM. Topics included lessons learned, waves causing the sampler to swing, contaminant hazards, required PPE, decontamination and moving between exclusion zones and support zones, and the USS Portland sailing out this morning.

GPS position checks were performed on the Tieton and Cayuse at the beginning and end of the day at the PH-2 pile at the Fred Devine property. Position checks indicated that the vessel GPS on the Tieton was reading within 1 meter of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.

Gravity conducted bar test to check accuracy of fathometer readings. Readings were within 0.1 FT of measured bar depth. No adjustments were required.

Julee Trump performed oversight of surface sediment sampling at random stratified locations on the West side of on the Willamette River from 08:00 to 16:40 on board the Tieton. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:

- 3-point composite surface sediment samples were collected from 7 random stratified sampling locations between RM 8.6 and 7.9 West and middle as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.
- Rinsate blank was collected

Julee Trump received an update from AECOM/Geosyntec on board the Cayuse at 17:50. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:

- 3-point composite surface sediment samples were collected from 7 random stratified sampling locations near RM 8 in the Swan Island lagoon as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.
- Rinsate blank was collected

Julee Trump received an update from the AECOM fish tracking crew. Five moorings were installed and the fish tracking station near the Swan Island Lagoon was successfully setup and tested.

Status of Schedule & Priority Work:

- Random stratified sampling will continue through this week, generally progressing up the river. Wednesday is planned for time off.
- Locations on private property are being skipped until access agreements are obtained.
- Sample locations in areas of known/encountered heavy sheen contamination are planned to be skipped and returned to with support from NRC Environmental Services to contain sheen during sampling.
- Sampling is taking more time than initially projected.

Issues/Concerns/Resolutions (include work performed that was not planned or anticipated):
AECOM crews have not received any updates for changes to procedures. No grabs were rejected for low recoveries today.

Samples Collected, Measurements Made, Photographs: (List Locations, Matrix & Sample type):
On the Tieton, stratified random surface sediment samples were collected between RM 9.3 and 9.9 West, and in the western portion of the navigation channel:

- PDI-SG-B291-BL1 – Within 25 ft radius, silt, approximately 3-4 ft of ¼" metal cable in jaws, but closure achieved.
- PDI-SG-B292-BL1 – Within 25 ft radius, silt, trace organics, moderate organic odor
- PDI-SG-B306-BL1 – Within 25 ft radius, silt, trace organics, moderate organic odor
- PDI-SG-B323-BL1 – Within 25 ft radius, silt, organics, moderate organic odor
- PDI-SG-B329-BL1 – Within 25 ft radius, silt, substantial organic debris, strong organic odor
- PDI-SG-B334-BL1 – Within 25 ft radius, silt, substantial organic debris, strong organic odor, trace organic sheen
- PDI-SG-B346-BL1 – Within 25 ft radius, silt over fine silty sand, trace organics, mild organic odor, clam

Note: Sediment descriptions are simplified, but AECOM/Geosyntec documented using USCS descriptions.

On the Cayuse, stratified random surface sediment samples were collected between near RM 8 in Swan Island Lagoon:

- PDI-SG-B260-BL1 – Location was under a dry dock, and moved to Alternate 1,
- PDI-SG-B265-BL1
- PDI-SG-B271-BL1
- PDI-SG-B273-BL1
- PDI-SG-B279-BL1
- PDI-SG-B280-BL1

Note: all locations were within the 25 FT radius and no grabs were rejected for low recovery.

Photographs of work were taken throughout the day on board the Tieton and provided to EPA via email. Additional photos were taken and archived with a description included in the photolog Excel spreadsheet, which are maintained electronically in the ProjectWise project folder.

Borings Completed (Include total footage drilled for each boring):
None

Wastes Generated and How Handled:

- Excess sediment and debris in the power grab sampler and in the sampling bowls was rinsed back into the river per the FSP. No heavy sheen was observed.
- Disposable gloves, paper towels, and other general trash was containerized in a trash bag and removed daily as needed for disposal to a municipal waste management dumpster.

Health and Safety Issues, Equipment Needs, Staffing:
None

Signature: Julee Trump **DATE** April 23, 2018

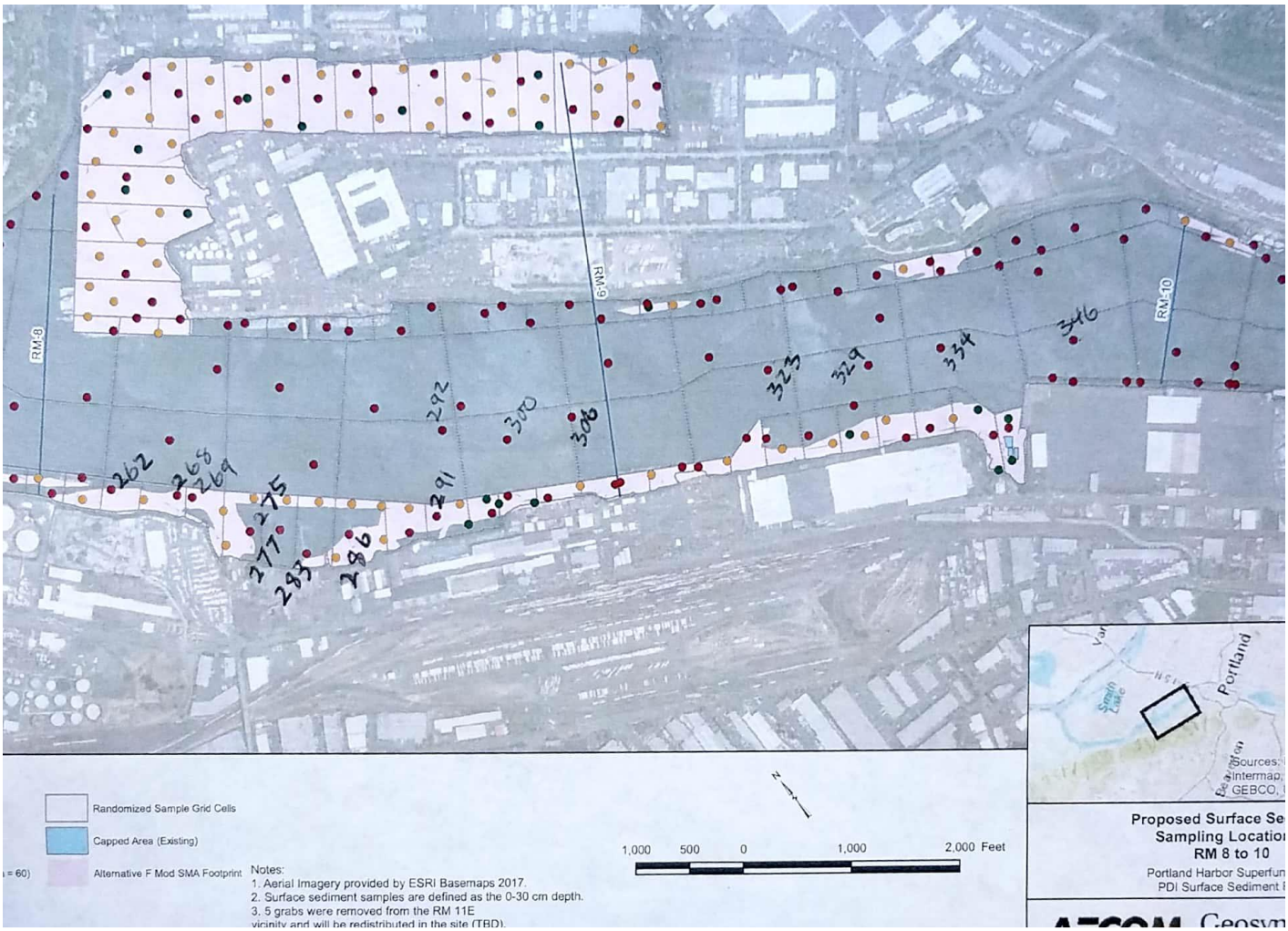

Figure 1: Field location notes